

DUAL PARA-XYLYLENE LAYERS FOR AN X-  
RAY DETECTOR

ABSTRACT OF THE DISCLOSURE

**[00109]** The present invention provides an X-ray detector assembly and a fabrication method, where the X-ray detector assembly includes a scintillator material disposed on a detector matrix array disposed on a detector substrate; and an encapsulating coating disposed on the scintillator material. The encapsulating coating includes a combination of a mono-chloro-poly-para-xylylene layer and a poly-para-xylylene layer. In one embodiment, a poly-para-xylylene layer is disposed over the scintillator material and a mono-chloro-poly-para-xylylene layer is disposed over the poly-para-xylylene layer.